



# GAP573 – Novel Peptide Modulator of Cell Communication

**Presenter:** Dr Keryn Johnson Senior Research Scientist Industrial Research Limited, NZ [k.johnson@irl.cri.nz](mailto:k.johnson@irl.cri.nz)

**Contact:** Dr Duncan Veal, Commercialisation Manager, Meat and Livestock Australia [dveal@mla.com.au](mailto:dveal@mla.com.au)



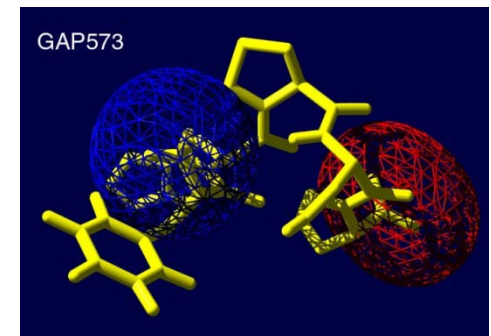


# Disclaimer

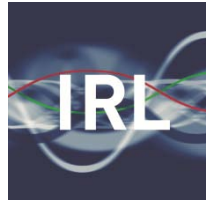
Care is taken to ensure the accuracy of the information contained in this publication. However MLA and IRL cannot accept responsibility for the accuracy or completeness of the information or opinions contained in the publication. You should make your own enquiries before making decisions concerning your interests. MLA and IRL accepts no liability for any losses incurred if you rely solely on this publication concerning your interests.



- Discovered in animal lenses
- MOA - Cell communication ↓
- Low likelihood of adverse reactions
- Small peptide enter cells
- Simple to manufacture short peptide



# Application 1 - Wound Healing



## Diabetic Food Ulcer

- 200,000 Australians have foot ulcers
- 45,000 Australians have lost a limb
- 1000 Australians die each year from complications.



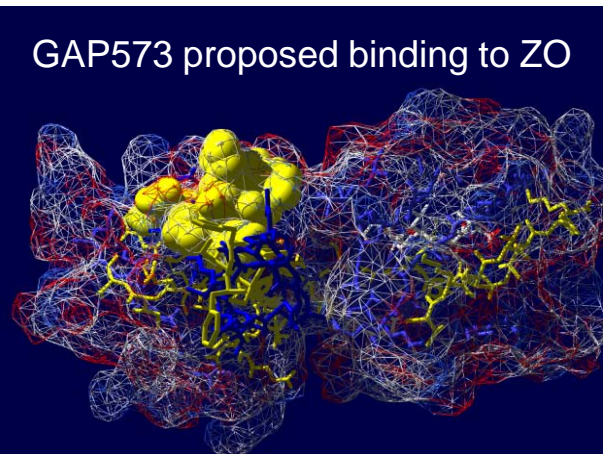
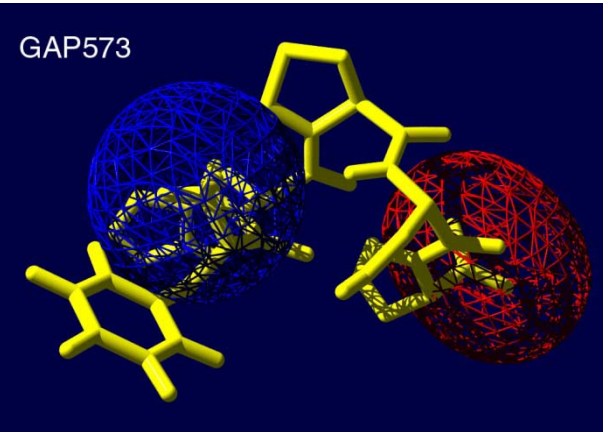
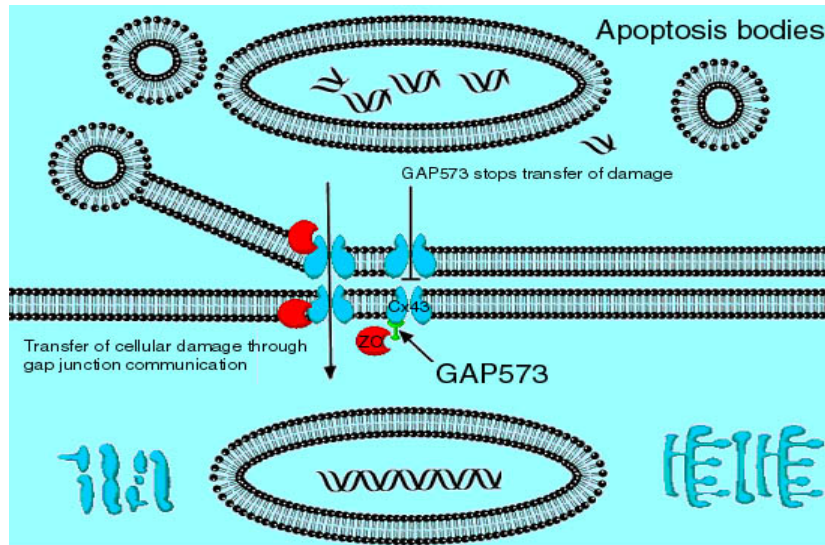
- Growing problem
  - Aging population
  - Increase in prevalence of chronic disease
  - Spiralling health care costs

# The Solution

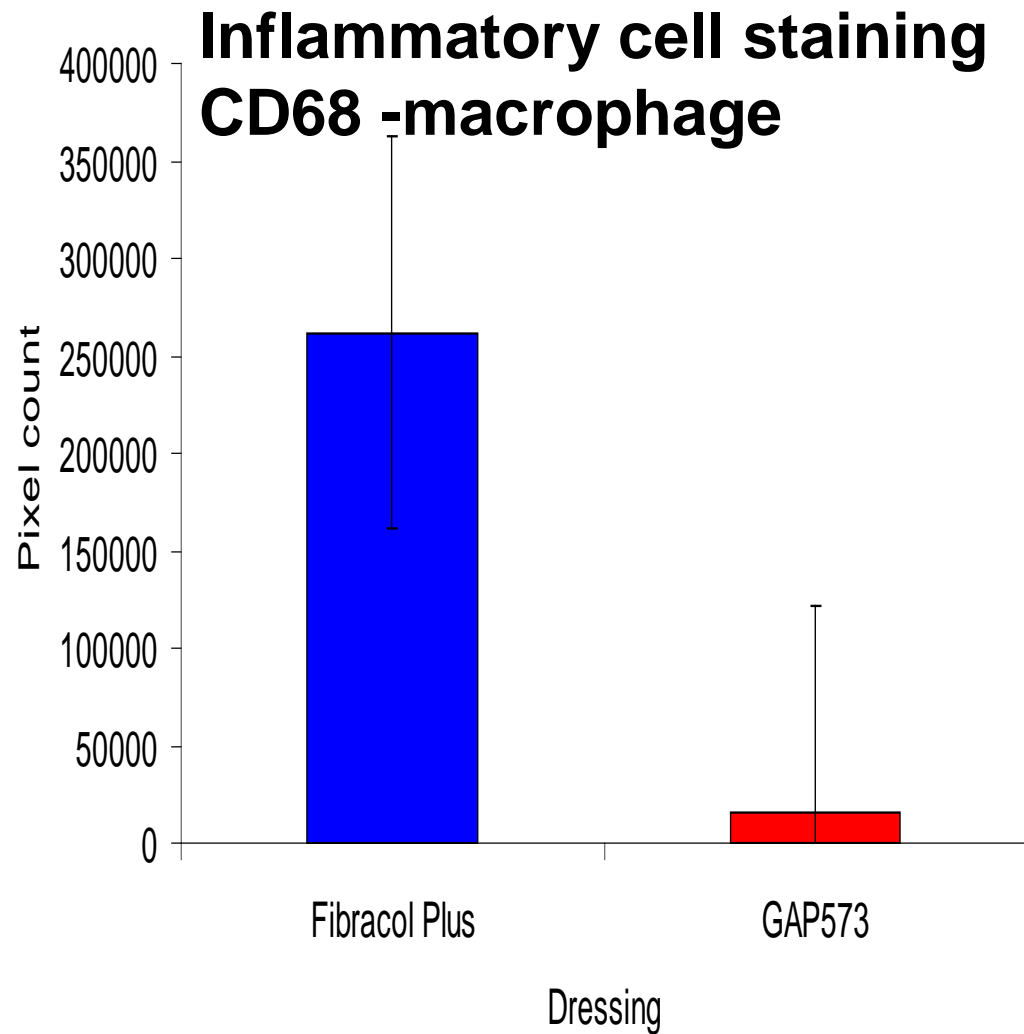
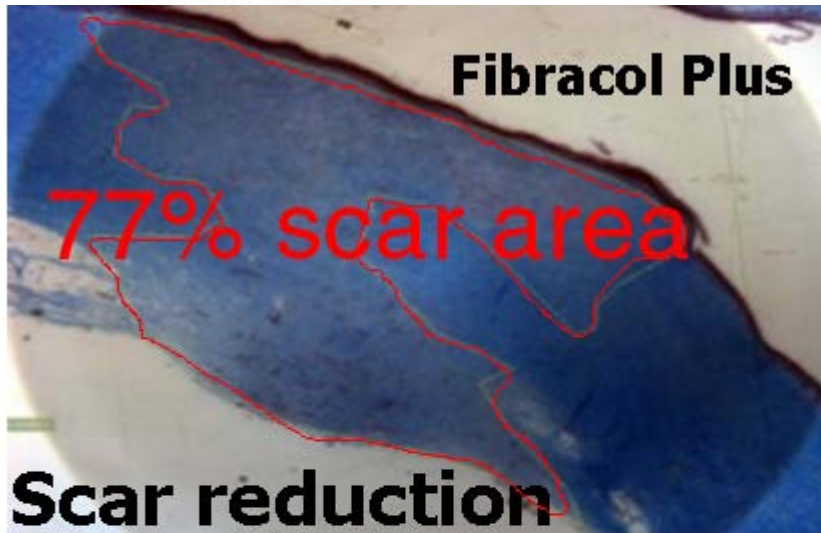


Inhibition of Gap  
junction communication

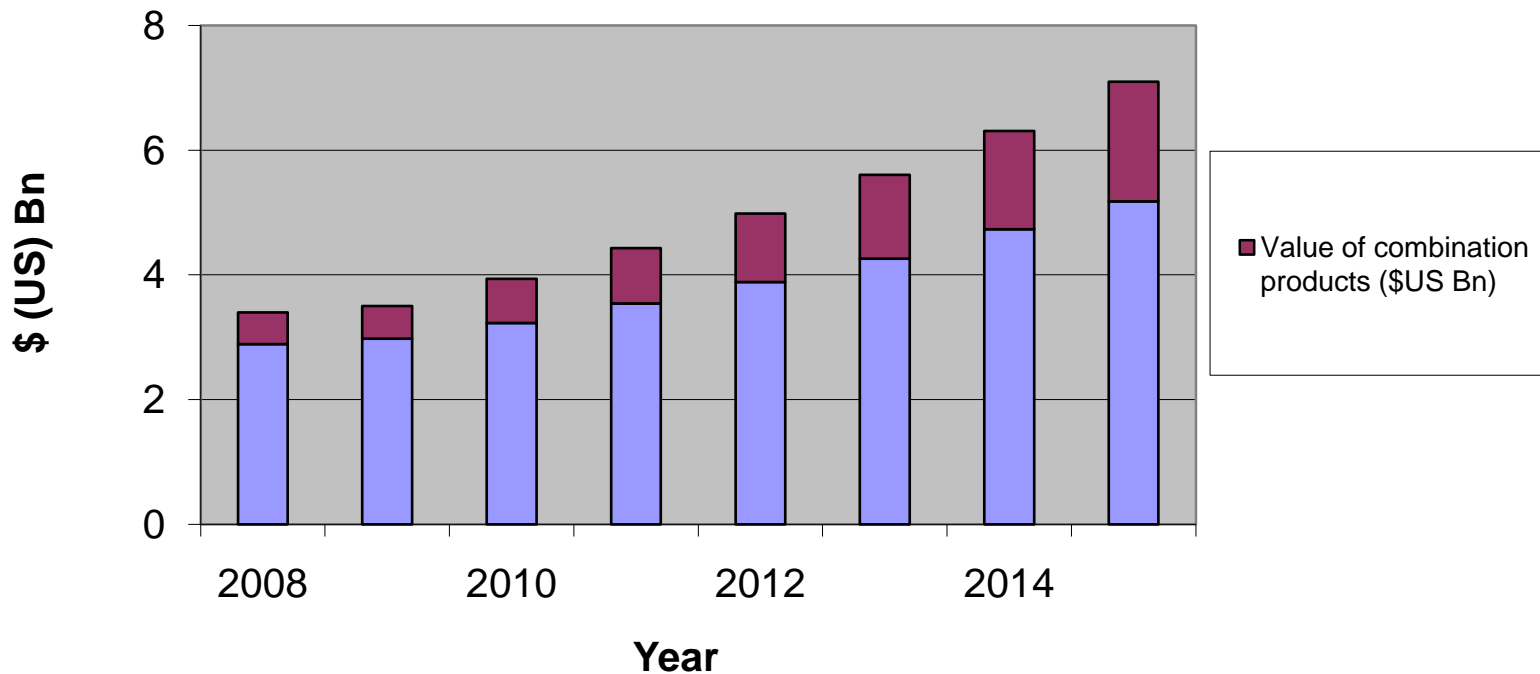
GAP573 in  
alginate gel







**Markets for Biological Wound Care Products**



<sup>[1]</sup> Drug-device Combinations: The Global Market Report Code: PHM045B Published: January 2010 BCC research

# Competitive Edge

Technology Approach	Company	Simple to use	Low cost	Natural vs Unnatural	Penetrates into cell for potentially faster action	Simple to manufacture	Synergistic to existing products on market
Autologous cells	Avita Medical, Tissue Genesis,	◐	◐	●	◐	◐	◐
Non autologous cells, genes or activators	Garnet BioTherapeutics, Angioblast, Derma Science, Healthpoint, ImmuneRegen BioScience	◐	◐	◐	◐	◐	◐
Customised molecules	Agennix, RegeneRx	●	◐	◐	◐	◐	◐
Cell communication molecules	Coda Therapeutics, Firststring Research	◐	◐	◐	●	◐	◐
Cell communication, naturally occurring	<b>MLA/IRL</b>	●	●	●	●	●	●



- Strategic partner to commercialise GAP573 a modulator of gap junction communication
  - Accelerates wound healing
  - Reduces inflammation
  - Promotes blood vessel formation (angiogenesis)
  - Reduces scarring
  - Patented technology (2 families)
  - Significant market need